FHWA	STATE	FED. AID	SHEET	TOTAL
REGIÓN NO.		PROJ, NO,	NO.	SHEETS
3	MD			

# PROJECT DESCRIPTION

#### I. General

This project involves the installation of anew traffic control signal with intersection lighting at the intersection of MD 5 and MD 249 in St. Mary's County, Maryland. MD 5 is assumed to run in a north-south direction.

#### II. Intersection Operation

This intersection is proposed to operate in a fully actuated mode with northbound MD 5 left turn lane operating as an exclusive/permissive phase. Northbound and southbound MD 5 and eastbound MD 249 will operate concurrently, and eastbound MD 249 shall operate in an exclusive phase.

A NEMA eight (8) phase, full traffic actuated controller with two (2) four-channel rack mounted loop detector amplifiers with time delay output housed in a pole mounted cabinet shall be installed at this intersection.

#### III. Special Notes

- 1. Maintenance of traffic will be handled by the contractor utilizing the following standard plates for traffic control: 104.00-28, 104.31-01, 104.32-01, 104.33-01, 104.34-01, 104.36-01.
- 2. The following contact persons for District 5 are as follows:

Mr. Paul Armstrong District Engineer Phone (410) 841–5450 Mr. Lawrence Elliot Asst. District Engineer-Traffic Phone (410) 841-5450

Mr. Chuck George Asst. District Engineer-Maintenance Phone (410) 841-5450 Mr. John Mays Asst. District Engineer-Utility Phone (410) 841-5450

Mr. Richard L. Daff, Sr. Chief, Traffic Operations Division Phone (410) 787–7630

3. Upon completion of this project, the contractor shall notify Mr. Robert Snyder of SHA at (410) 787–7635 to arrrange for the phone line installation. The contractor is to provide Mr. Snyder with the nearest street address, zip code, and phone number.

## EQUIPMENT LIST

# A. Equipment to be supplied by the Administration.

ITEM NO.	QUANTITY	UNITS	SPECIFICATION SECTION	N DESCRIPTION
9001	6	EA	814	12 in. 1 way 3 section (R,Y,G) signal head mast arm mount.
9002	1	EA	814	12 in. 1 way 5 section (R,Y,G,YA,GA) signal head-mast arm mount.
9003	1	EA	816	Eight-phase (fully actuated controller and cabinet)-pole mount
9004	2	EA	×××	Four-channel loop detector amplifier (delayed output)
9005	98	SF	813	Sheet aluminum signs consisting of:
	1	EA		R10-12, (36 in. x 42 in.) "Left Turn Yield on Green", mast arm mount.
	1	EA		R1-2, (36 in. x 36 in. x 36 in.)- ground mount
	1	E. A		R3-5 (L), (36 in, x 36 in.) - mast arm mount
	2	EA		W3-3, new signal ahead, (48 in. x 48 in. – ground mount
	1	EA		W3-3, new signal ahead, (36 in. x 36 in.) - ground mount
	2	EA		D3-2, (var. x 16 in.) - Piney Point Road
	2	EΑ		R3-9b, (24 in. x 36 in.)
	1	EΑ		Special sign (30 in. x 24 in.)

## EQUIPMENT LIST

SPECIFICATION SECTION

104

555

DESCRIPTION

CONSULTING ENGINEERS COLUMBIA, MARYLAND

Maintenance of Traffic per

6 in. yellow thermoplastic

6 in. white thermoplastic

24 in, white thermoplastic

pavement marking tape

pavement marking tape

assignment

B. Equipment to be Furnish and/or Installed by the Contractor

EΑ

LF

LF.

LF

ITEM NO. QUANTITY UNITS

560

495

85

1001

5007

5010

5010	00	Louv 1	333	pavement marking tape
5012	5	EΑ	555	Thermoplastic pavement marking arrow
5013	1	Anges Table	555	Remove existing pavement markings - any width
6002	70		609	Standard Type A combination curb and gutter 12 in. gutter pan, 8 in. depth
8001	5.24	CY	801	Furnish and install concrete for signal foundation
8007	4	EA	805	<sup>3</sup> /4in. to 3 in. blind coupling, for traffic signal structures, welded and galvanized
8011	7	EΑ	814	Install signal head (ANY TYPE)
8016	2	EA	815	Furnish and install microloop probe set with 500 ft. lead-in
8017	2	ΕA	815	Furnish and install microloop probe set with 1000 ft. lead-in
8019	1	EA	816	Install controller and cabinet-pole mount
8021	480	LF	815	Furnish and install saw cut for signal (loop detector)
8023	40	L.F	805	Furnish and install 1 in. liquid tight flexible non-metallic conduit for detector sleeve
8024	900	- F	805	Furnish and install 2 in. schedule 80 rigid PVC conduit-trenched
8026	20	L. Fr	805	Furnish and install 2 in. schedule 80 rigid PVC conduit-bored
8027	80	For	805	Furnish and install 3 in. schedule 80 rigid PVC conduit-trenched
8029	240	F**	805	Furnish and install 3 in. schedule 80 rigid PVC conduit-bored
8033	12	EA	811	Furnish and install electrical handhole
8034	1	EA	804	Furnish and install ground rod- 3/4 in. diameter x 10 ft. length
8040	1200	LF	810	Furnish and install loop wire encased in flexible tubing (No. 14 AWG)
8041	200	LF	810	Furnish and install electrical cable - 2 conductor (aluminum shielded)
8044	80	Amery Com	810	Furnish and install electrical cable – 5 conductor (No. 14 AWG)
8045	140	gran fab.	810	Furnish and install electrical cable - 7 conductor (No. 14 AWG)
8046	50	LF	810	Furnish and install electrical cable – 2 conductor (No. 12 AWG) type "TC"
8049	20	Park Park	810	Furnish and install No. 6 AWG stranded bare copper ground wire
8050	500	L F	810	Furnish and install electrical cable 1 - conductor No, 4 AWG - THHN/THWN

### EQUIPMENT LIST

B. Equipment to be Furnish and/or Installed by the Contractor

	F		,		
ITEM NO	. QUANTIT	Y UNITS	SPECIFICA SECTION		DESCRIPTION
81	051	120	LF	812	Furnish and install wood sign supports 4 in. x 4 in.
80	052	160	LF	812	Furnish and install wood sign supports 4 in. x 6 in.
80	053	67	SF	813	Install ground mounted sign
80	054	31	SF	813	Install overhead sign
80	056	1	EA	806	Furnish and install 250 watt HPS luminaire with photocell
80	057	1	EA	808	Furnish and install lighting bracket arm for traffic signal structure
80	064	1	EA	SP	Use existing plan or disk and as-built traffic control device
80	068	30	LF	810	Furnish and install 2 in. electrical conduit – PVC riser- schedule 80
80	070	1	EΑ	807	Furnish and install control and distribution equip(120/240V, 1 phase 3 wire syst)
80	)84	1	ĒΑ	SP	Furnish and install mast arm pole and 70 ft. mast arm

REVISIONS	APPROVALS	MARYLAND DOT - STATE HIGHWAY ADMINISTRATION					
	ASST. DIVISION CHIEF, TEDD  ASST. DISTRICT ENGINEER, TRAFFIC	Office of Traffic & Safety  TRAFFIC ENGINEERING DESIGN DIVISION  MD 5 AT MD 249					
		GENERAL INFORMATION SHEET 2 OF 2 DATE 7 / 97					
	CHIÉF, TRAFFIC ENGINÉERING DESIGN DIVISION	DRAWN BY: R CICCHINI F.A.P. NO. STPG-0005(494)E TRAFFIC					
RS		CHECK BY: S.H.A. NOS.: ANDTRASS, ANDTRASS, ANDTRASS SIGNAL NO.: SHEET NO.  ST MARY'S 3646 4 5					